

PRO-QUIZ HUB

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Abstract—*In today's educational landscape, students exhibit a strong desire to stay updated with the latest technologies. However, they often struggle to find a reliable platform to gauge their skills effectively. To tackle this issue head-on, we've introduced PRO-QUIZ HUB, a web application designed to revolutionize the way students assess their abilities. Through this platform, students can seamlessly conduct online examinations, eliminating the tedious process of manual paper grading. Our primary objective is to furnish students with a thorough assessment system that not only conserves time but also ensures swift and precise outcomes. With PRO-QUIZ HUB, administrators can conveniently schedule exams from anywhere, without the need for traditional materials like paper and pens. This platform offers students a hassle-free way to access exams, ensuring their results are displayed immediately. Exams are structured with multiple-choice questions and a specified time limit, allowing students to view their scores as soon as they finish. Moreover, our system facilitates remote exam-taking, enhancing both security and convenience for students. Additionally, PRO-QUIZ HUB incorporates AI proctoring features to alert students of any anomalies during the exam process.*

Keywords—*Web application, comprehensive, accurate, results, AI proctored*

I. INTRODUCTION

Education is changing at a never-before-seen rate in today's fast-paced society. Platforms that can efficiently evaluate and analyze students' skills are in greater demand as more and more students show eagerness to adopt the newest technology. The use of technology into educational systems in the current digital era has completely changed the way that tests are administered. Exam portals that are accessible online have become essential to this change since they provide a more efficient way to administer tests. The emergence of online exam portals has improved the accessibility, ease of use, and efficiency of the assessment process.

Pro-quiz Hub is an online test simulator that makes it easier to deliver tests in a digital setting and saves time by administering tests online quickly and effectively compared to manually going over the test paper. This technique has grown in popularity, particularly in light of the expansion of

remote learning and e-learning. This web-based online test system's primary objectives are to assess students or applicants thoroughly and effectively using an automated approach that saves a significant amount of time and generates improved, quick results. It also aims to streamline the exam-taking process, making it more effective, scalable, and accessible for educators and students.

Candidates or students taking the test can finish the exam from any location by using the internet and time, doing away with the necessity for a manual or conventional pen and paper format. Using the online examination method, the candidate or student can swiftly and conveniently show up for the test or examination. Furthermore, it reliably and securely sends and generates exam results instantaneously after the examination. The Online Assessment System is currently recognized as a quickly developing assessment method due to its speed and accuracy.

This online test portal's adaptive time restriction is one of its standout characteristics; it makes sure that examinations are automatically uploaded when the allotted time is over. This function improves productivity and avoids needless delays in the displaying of results.

This online exam portal's flexibility goes beyond conventional classroom tests. It supports a wide variety of exams, such as admission exams, personality tests, psychometric tests, evaluation tests, aptitude tests, and campus exams. Organizations may also use the portal to efficiently track students' progress, which will speed up outcome calculations and lessen the need for paper-based exams. In addition, less work is needed to finish the exam. However, Pro-Quiz Hub's dedication to security and accuracy makes it stand apart.

Convenience is crucial in the digital society we live in today. Because of this, Pro-Quiz Hub enables students to complete tests on their own time and at their own speed. Our platform

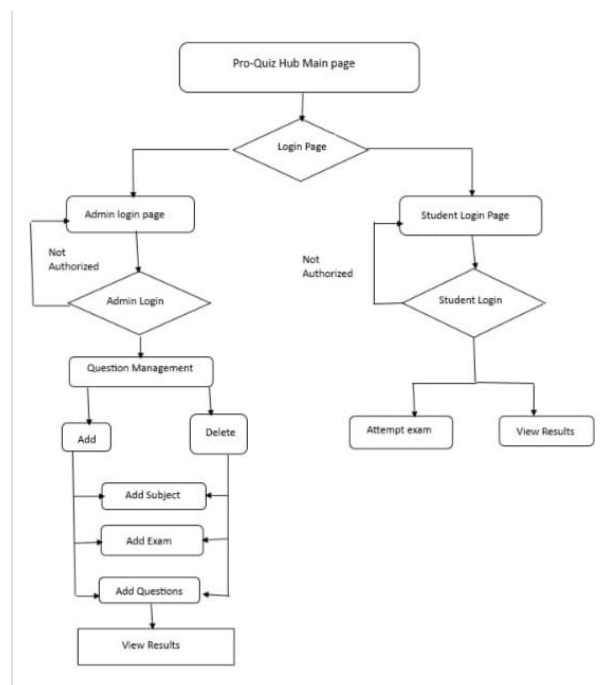
allows students to learn on their own schedule, either late at night or early in the morning.

The biggest benefit of Pro-Quiz Hub is without a doubt its ability to democratize education. Through our platform, we are breaking down barriers and improving inclusion and accessibility in education for anyone.

To sum up, Pro-Quiz Hub is a force for transformation in the field of education. We are enabling students to realize their ability and start a lifetime learning journey by utilizing the power of technology.

METHODOLOGY

System Architecture:



The main page of the web application consists of two logins that include Admin login and Student login.

Admin module:

The admin module, which offers educators an easy-to-use interface for creating, managing, and analyzing tests, is the core of the online exam site. It gives teachers the power to easily design and administer tests. Teachers may easily go through a series of tools intended to improve the test authoring process after securing their login. They may add questions, classify them by subject, and give each question a difficulty rating thanks to the system's versatility.

The instructor module's ability to create personalized exam timings is one of its distinctive features. To provide a fair and well-paced test setting, teachers can adjust the time based on the quantity of questions and the intricacy of the material. This module gives teachers the ability to customize

assessments to achieve certain educational objectives while also streamlining the way of creating exams.

Student module:

Nonetheless, the student module is designed to give test-takers a user-friendly and convenient platform. Exams are made simpler for students via the student platform. Students must complete the platform's registration process in order to access the exam. Following registration, students select the exam and subject of their choice. The test has a time limit and begins immediately. Exam questions consist of multiple-choice answers with a set number of choices; students must select the correct answer from the list. Because of its AI proctored feature, the user receives cautions if they do any exam malpractice. Following the three consecutive warnings, the exam will automatically be submitted.

Additionally, before beginning the exam, students must grant access to the microphone. The questions will be asked in a different order to each user.

Since they receive real-time feedback, including their scores, after submitting their exam, students can easily evaluate their performance quickly.

Teachable Machine:

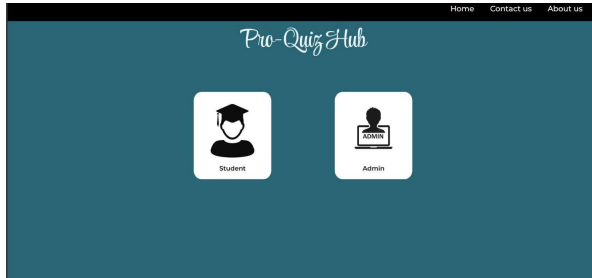
Using Teachable Machine, you can effortlessly create machine learning models for various projects without requiring any coding knowledge. Train a computer to recognize gestures, sounds, and images with ease. Subsequently, you can export these models to websites, applications, and other platforms. Teachable Machine employs the CNN algorithm for image recognition.

CNN Algorithm:

One kind of artificial neural network that learns directly from data is the Convolutional Neural Network (CNN), which employs deep learning. CNNs are artificial nodes that receive inputs, process them, and transmit the output; their design is inspired by that of the brain. When looking for patterns in photos to identify items, classes, and categories, CNNs are quite helpful. They may also be very useful in the classification of signal, time-series, and audio data. For applications involving image categorization, retrieval, and detection, CNNs are the most efficient architecture. They have radically altered the way we think about picture recognition.

RESULTS

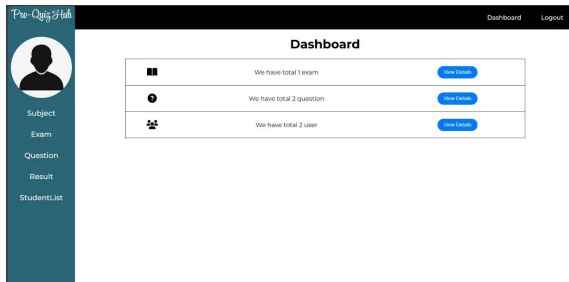
Home page:



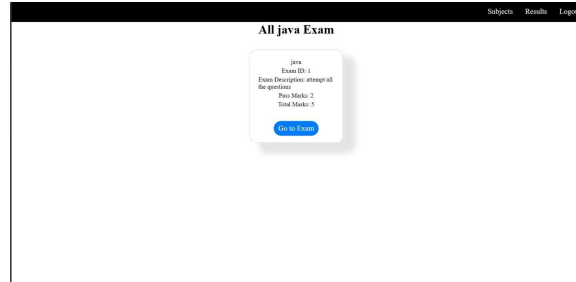
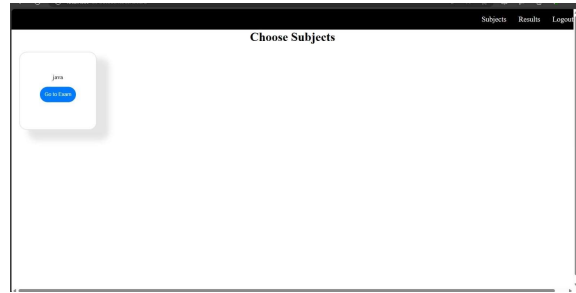
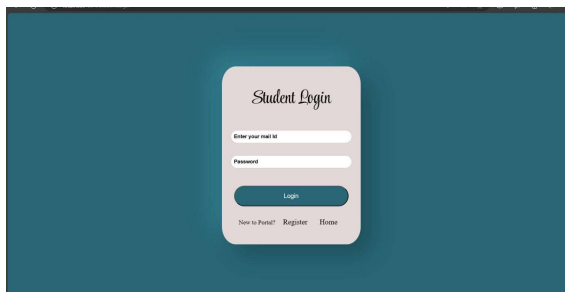
Admin login:



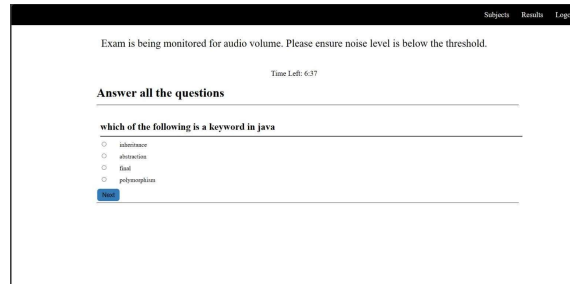
Admin page:



Student login:



Examination Page:



Results Page:

User Email	Exam Name	Exam Date	Result Status	Your Score	Total Marks	Total Question
java@gmail.com	java	14/3/2024, 9:44:14 am	Fail	0	10	2
java@gmail.com	java	14/3/2024, 9:39:17 am	Fail	0	10	2
java@gmail.com	java	14/3/2024, 10:43:48 am	Fail	0	10	2

DISCUSSION

In this website there will be student module and admin module, In admin module admin can add subject and can add questions where as in student module the student can login into website and if student is new then he need to register into website and can select the subject of his interest and can attempt the exam. while writing the exam there will be timer and web proctoring and there is any disturbances the system will give warnings and if student didn't submit within the time limit then it will submit automatically. In future we will suggest to add programming questions along with the quiz

and we can also add feature like closing of exam automatically if exceeding of 3 warnings.

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